991 EUROPLAN DIRECT RAPID

Self-smoothing, very high quality and fast drying levelling compound for stony subfloors.

Product Typification

Basis	:	Cement-powder with additives and a high synthetic binder content, to be mixed with water.
Colour	:	Grey.
Consistency	:	Powder.

- Very low VOC-emission
- Emicode EC 1 plus
- Less dust
- Favourable spreading capacity
- Very fast drying
- After 1.5 – 3 hours ready for installation
- Self-smoothing
- Low-tension
- In most cases a primer is not required
- Excellent flow
- Pumpable
- High compression strength
- Maximum layer thickness of 20 mm

Performances

Flammability	:	Non-flammable.
Bending Strength	:	According to NEN-EN 13892-2:2002: after 28 days ≥ 12 N/mm².
Bureau Wheelchair resistance	:	From 1 mm layer thickness.
Compressive strength	:	According to NEN-EN 13892-2:2002: after 28 days ≥ 42 N/mm².
Adhesion	:	After 28 days 3,6 N/mm².
Passableness	:	Approx 1 - 1,5 hour at 18° - 20° C.*
Consumption	:	Approx. 1.5 kg/m² per mm layer thickness.

Application

For levelling stony subfloors (interior use) in layers up to 20 mm.

At layers up to 2 mm, a surrounding temperature 18° - 20° C and a relative humidity of < 70%, the applied levelling compound layer is ready for the installation of linoleum, needlefelt, carpet, PVC- and rubber floor covering after 1.5 - 3 hours. For the installation of linoleum, needlefelt and carpet the residual moisture percentage in the subfloor may not be measured above 3.5 CM-%. For installation of PVC- and rubber floor covering is this respectively 2.5 and 2.0 CM-%. Install parquet and cork after at least 12 hours. In this case the residual moisture percentage may not be measured above 2.5 CM-%.

If applying by pump:

Consult pump supplier, ensure the pump is suitable for all types of levelling compounds. Pumping with a too high mixing rate can cause an insufficient flow of the levelling compound.

Working Process

Storage	:	Store cool and dry.
Tools	:	Trowel or notched squeegee in combination with a spiked roller.
Mixing ratio	:	Add 23 kg of 991 Europlan Direct Rapid to 5 - 5.5 litres of water.
Processing time	:	Binnen 15 minuten na het mengen.*
Latency	:	Approx 3 minutes.
Drying	:	At 18º - 20° C and a relative humidity < 70% the applied levelling compound layer is ready for the installation of linoleum, needlefelt, carpet, PVC and rubber after 1.5 - 3 hours.*
Shelf Life	:	6 months, in unopened packaging.

* The mentioned values have been established in our laboratory and must be considered as guidelines in view of possible variations in climatic circumstances, subfloor compositions and layer thickness.

Substrate:

- 991 Europlan Direct Rapid can be applied on any type of stony subfloor that is rigid and has a good tensile and compression strength. The subfloor should also be clean, permanently dry and free from grease and dirt, according to the requirements of BS 8203 or DIN 18 365.
- Degrease smooth and impervious subfloors (tile floors, granito, terrazzo etc.) with 014 Euroclean and rinse afterwards. In most cases it is not necessary to use a primer.
- Absorbent subfloors (sand/cement screeds) can be levelled with 991 Europlan Direct Rapid without using a primer.
- Prime very strong porous subfloors with 044 Europrimer Multi, 099 Dispersiom Primer or 049 Europrimer ABS with a foam roller.
- Prime moisture sensitive subfloors (e.g. anhydrite, magnesite, water-soluble adhesive residues etc.) with a suitable primer.
- In case of asphalt floors and bituminous substrates please contact our technical department.
- Fill cracks and deep damages with 905 Europlan Fill or 945 Europlan Solid. After hardening prime 905 Europlan Fill or 945 Europlan Solid with 044 Europrimer Multi, 099 Dispersionprimer or 049 Europrimer ABS.
- Fix cracks/seams in the subfloor with 021 Euroblock Reno in combination with 063 Eurotape and 846 Quartzsand or 808 Eurojoint Connector in combination with 021 Euroblock Reno.
- Level anhydrite floors with 920 Europlan Alphy or 925 Europlan Alphy Direct.
- In advance always seek our technical data sheets. In doubt about the application ask for technical advice.

User manual:

Working conditions:

Required surrounding temperature : 18° C - 23° C.
Temperature for material and subfloor : min. 15° - max. 20º C.
Relative humidity : 40 -70%.

Directions for use:

- Add 23 kg of 991 Europlan Direct Rapid to 5 - 5.5 litres of cool and clean tap water.
- Stir thoroughly, using an electric stirrer (Eurocol no. 855), to a smooth and homogeneous mixture.
- Wait for approx. 3 minutes and stir the mortar once again, with a low rpm.
- Apply the mortar within 15 minutes on the floor with a trowel or notched squeegee.
- When pumping adjust the mixing-unit in such way that per 23 kg of 991 Europlan direct Rapid 5 – 5.5 litres of cool and clean tap water will be added
- Protect fresh levelling compound layers against draft and direct sunlight.
- Under normal circumstances the layer is passable after approx. 1 - 1.5 hours. At a layer thickness of 2 mm and a temperature of 18°-20° C, the levelling compound layer is ready for the installation of a floor covering after 1.5 - 3 hours, provided that the moisture content does not cross 3.5 CM-%.
- Higher temperatures will accelerate and lower temperatures will slow down the application and drying time of 991 Europlan Direct Rapid.
- For extended information about the safety precautions we refer to the safety data sheet on our website www.eurocol.com.

Underfloor heating systems:

991 Europlan Direct Rapid can be applied on underfloor heating systems. The startprotocol of the floorheating needs to be completly executed in accordance with the directives of the supplier. Turn off the heater 24 hours before application; do not heat again until at least 24 hours after installation, in steps of maximum 5° C water temperature per day.

Quality and guarantee

Environment and health

Hazard Class	:	Xi (irritating).
Safety and environment	:	Safety data sheets of Forbo Eurocol products according to EEG-guideline 91/155.
MSDS	:	For extensive information about safety and environment we refer to our website www.eurocol.com.

Articles

Article	Definition	Packaging	EAN-code
991	Europlan Direct Rapid	23 kg	8 710345 991117